Docket: No.: T2147-906626
Appl. No. 09/701,611
Reply to Office Action of January 5, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-34. (Cancelled)

35. (Currently Amended) A method for preconditioning one or more first data tables of a decision application server in a search system, the first tables intended to be processed by a search engine responding to queries for selecting records from the first data tables, the method comprising the steps of:

[[-]] analyzing predicates contained in fields of records intended to fill the first data tables, the predicates containing words and the analyzing comprising the step of analyzing the predicates in the records according to authorized relations and constraints on the predicates, the constraints on the predicates including an ordinal relationship among the words;

[[-]] creating a nomenclature of the predicates from the analysis of the field of records;

[[-]] numerically encoding the predicates in accordance with the nomenclature created ~~taking into account~~ , the encoding maintaining the ordinal relationship among the words in order to preserve the ordinal relationship; and

[[-]] presenting the encoded predicates in the form of numeric values in one or more second data tables of numeric values.

36. (Previously Presented) The method according to claim 35, wherein the nomenclature comprises an association relationship between the predicates and the numeric values, and

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wherein the step of encoding consists of replacing the predicates with the associated numeric

values, and wherein the ordinal relationship is alphabetical order.

37. (Previously Presented) The method according to claim 35, characterized in that the

step of encoding compacts the second data tables vis-à-vis the first data tables.

38. (Previously Presented) The method according to claim 35, further comprising the

step of installing a copy of the second data tables in a machine having vectorial capability for

processing the encoded predicates in accordance with a query served by the decision

application server.

39. (Previously Presented) The method according to claim 36, further comprising the

step of installing a copy of the second data tables in a machine having vectorial capability for

processing the encoded predicates in accordance with a query served by the decision

application server.

40. (Previously Presented) The method according to claim 37, further comprising the

step of installing a copy of the second data tables in a machine having vectorial capability for

processing the encoded predicates in accordance with a query served by the decision

application server.

41. (Currently Amended) A method for searching records in at least one first data table in

response to a given query from a decision application server, the first data table

having plain-text data including words, the method comprising the steps of:

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[[-]] receiving the given query having plain-text predicates for searching records in the first table,

[[-]] transforming the given query, in accordance with a nomenclature, into an encoded query having numerically encoded predicates,

[[-]] processing the encoded query in connection with at least one second data table, the second data table having numerical data encoded ~~in accordance with~~ so as to maintain an ordinal relationship among the words in the plain-text data.

42. (Currently Amended) The method of claim 41, wherein the ordinal relationship is alphabetical order and wherein the step of transforming consists of

[[-]] translating each of the plaintext predicates of the given query into at least one vector representing values to be found in the second data table.

43. (Currently Amended) The method of claim 42, wherein the step of processing consists of

[[-]] comparing each vector to all lines of the second data table, column by column;

[[-]] saving an associated line number for each coincidence; and

[[-]] returning, for each saved line number, a record of the second data table corresponding to the line number, the returned record comprising at least one vector.

44. (Previously Presented) The method of claim 43, further comprising the step of translating, in accordance with the nomenclature, each vector of the returned record into a plain-text predicate.

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45. (Previously Presented) The method of claim 41, further comprising the step of expressing a result from the processing step in statistical form in response to the given query.

46. (Previously Presented) The method of claim 38, wherein the machine with vectorial capability is a supercomputer.

47-52. (Cancelled)

53. (Currently Amended) A method for preconditioning one or more first data tables of a decision application server in a search system, the first tables containing rows and columns and intended to be processed by a search engine responding to queries for selecting rows from the first data tables, the method comprising the steps of:

analyzing predicates of text to be contained in a particular column of the first data tables, including analyzing a collating sequence associated with the predicates;

creating a nomenclature from the analysis of the predicates according to the collating sequence;

numerically encoding actual text in accordance with the created nomenclature, the encoding maintaining the collating sequence; and

presenting the actual encoded text in the form of numeric values reflecting the collating sequence, in one or more second data tables of numeric values.

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